



# LAI Network

Coordinating effort between MODIS Land  
Validation and BU LAI/fPAR team

Objective: Utilize existing research efforts, which  
are monitoring and measuring LAI and related  
parameters.

Plan: Exchange field data for TM scale LAI map  
produced with MODIS/MISR algorithm.

Currently twenty four sites have agreed to contribute  
*<http://cybele.bu.edu/modismisr/validation/sitespis.html>*



## LAI Network Sites, by Biome

Broadleaf Cropland	Broadleaf Forest	Needleleaf Forest	Grassland	Shrubland	Woodland
Everglades	Amazon	BOREAS_NSA *	Uardry	SALSA	Mongu
USDA ARS	Harvard *	Cascades	Konza *	Skukuza	
Bondville *	Park Falls	Krasnoyarsk	Osage	Sevilleta	
Barton Bendish		EM A TREF	North Texas		
Yaqui Valley		Flakaliden	Jornada		
		Mekrijärvi			
		Ruokolahti			

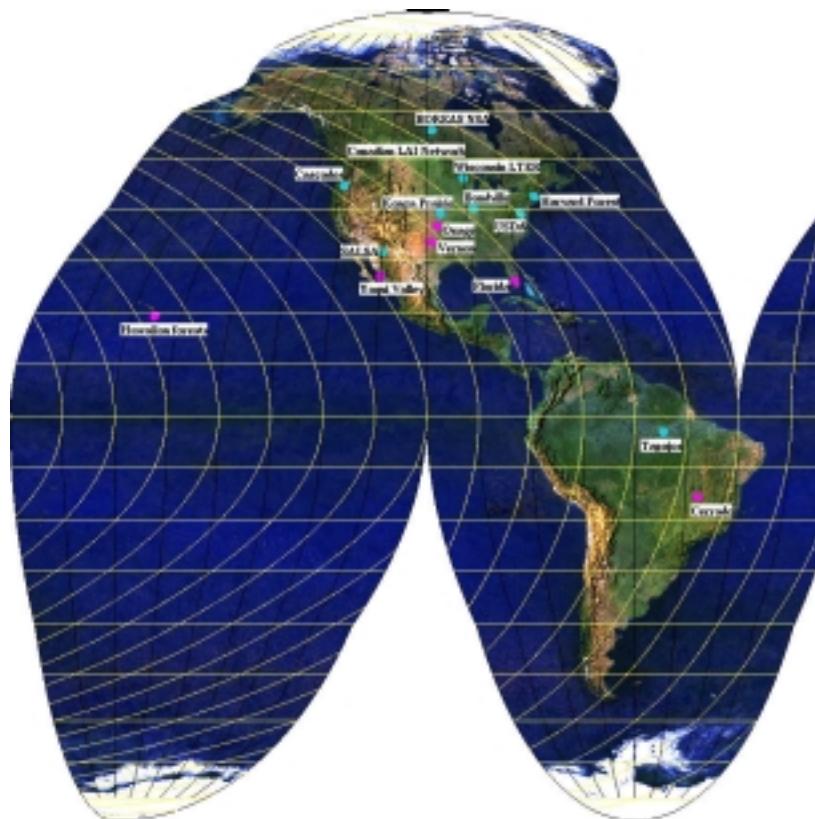
EOS Land Validation Core Sites shown in Blue

Planned MODIS LAI/FPAR team participation in 2000

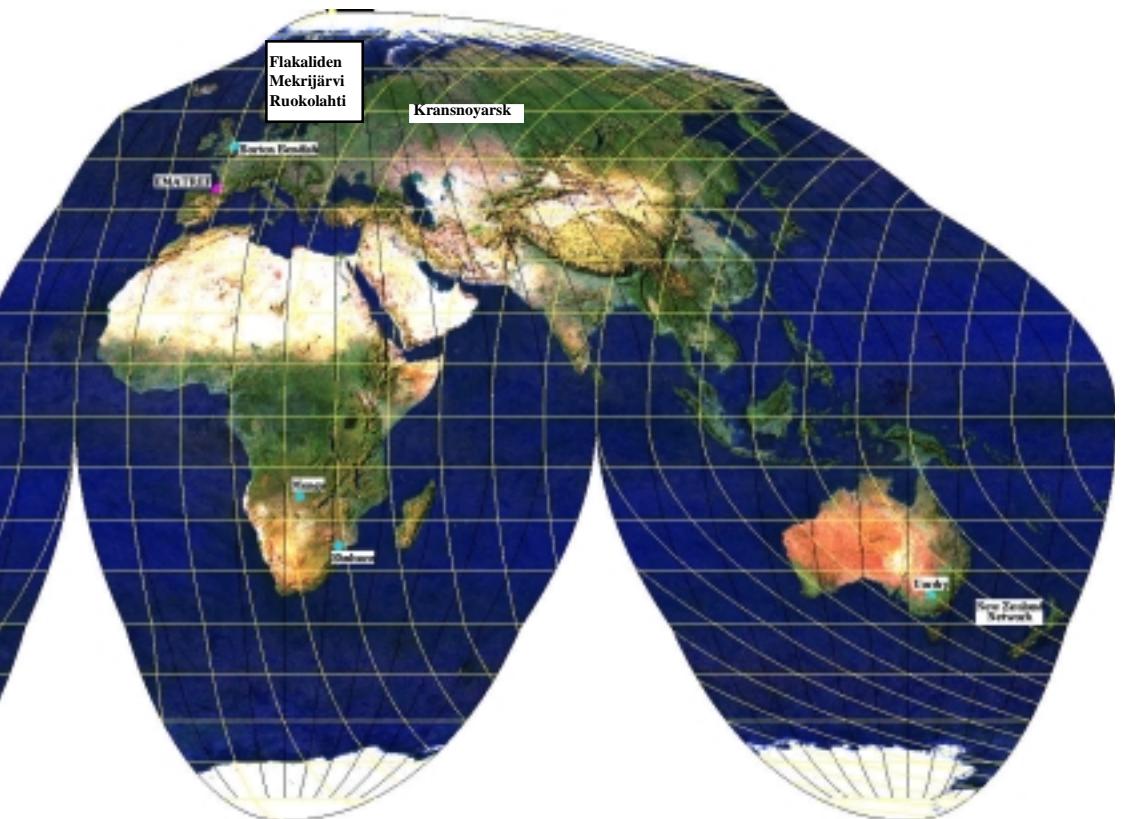
\* = BigFoot sites



# LAI/FPAR Validation Site Map



LAI/FPAR validation sites - Q-vienna projection - Black grid: 10 deg. graticule - Yellow grid: MODLAND L1 tiles



For your Deciduous (MODLAND/LDCP) - May 1999

*Core Sites shown in blue*

*Validation Readiness Review, J.T. Morisette, R. Myneni*

*17 November 1999*



## *Essential field data*

LAI/FPAR measurements under different phenological conditions, sufficient for representing the variability within the local biome.



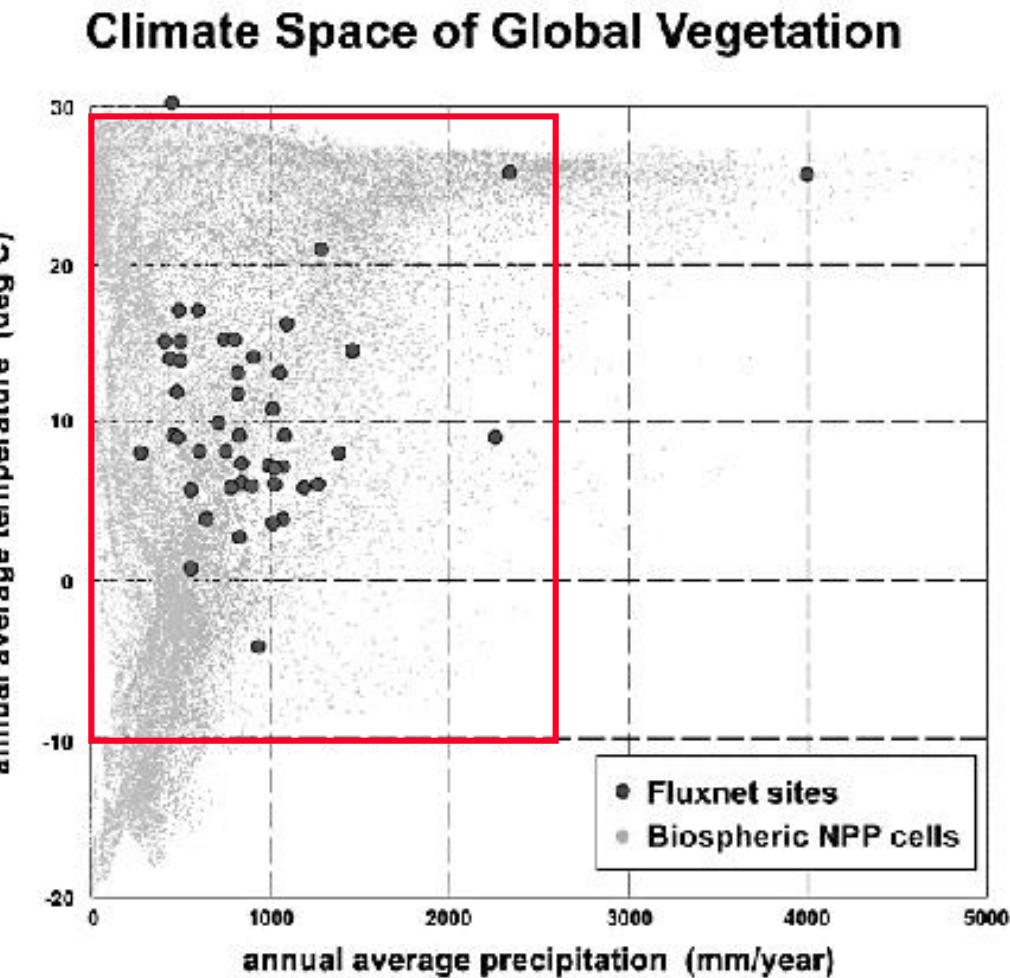
# *Additional measurements*

*(in order of priority)*

- Canopy multispectral reflectance (nadir or bidirectional)
- Canopy multispectral transmittance
- Leaf spectra (reflectance and transmittance)
- Background nadir spectral reflectance (soil + litter)
- Fraction of vegetation cover
- Vegetation crown allometry (height, width, gap)
- Phenology (green-up, mature, senescent stage)
- Vegetation composition (either by species or structural type)
- Wet or dry status
- Fraction of non-photosynthesizing vegetation  
(at min. photosynthetic activity stage)
- Meteorological data  
(minimum set: temperature, precipitation for each phonological stage)



# *Fluxnet sites in Meteorological Space*





# *Core Site Max. LAI in Meteorological Space*

